

	Type	L #	Hits	Search Text	DBs
1	IS&R	L1	276	(429/232).CCLS.	USPAT
2	BRS	L2	71981	(carbon or oxide) and micron	USPAT
3	BRS	L3	13479 8	(carbon or oxide) and micron	USPAT
4	BRS	L4	58	1 and 3	USPAT
5	IS&R	L5	124	(429/232).CCLS.	US-PG PUB
6	BRS	L6	18210	(carbon or oxide) and micron	US-PG PUB
7	BRS	L7	34	5 and 6	US-PG PUB

## WEST Search History

DATE: Sunday, June 15, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=EPAB; PLUR=YES; OP=ADJ</i>			
L9	L7 and L8	4	L9
L8	micron\$ and (carbon or oxide\$2)	823	L8
L7	((H01m004/62)!.IPC. )	398	L7
<i>DB=JPAB; PLUR=YES; OP=ADJ</i>			
L6	L4 and L5	5	L6
L5	micron\$ and (carbon or oxide\$2)	857	L5
L4	((h01m004/62)!.IPC. )	3382	L4
<i>DB=DWPI; PLUR=YES; OP=ADJ</i>			
L3	L1 and L2	70	L3
L2	micron\$ and (carbon or oxide\$2)	37641	L2
L1	((h01m004/62)!.IPC. )	3788	L1

END OF SEARCH HISTORY

# WEST

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L3: Entry 42 of 70

File: DWPI

Jun 5, 1992

DERWENT-ACC-NO: 1992-238842  
DERWENT-WEEK: 200030  
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TITLE: Small size non-aq. sec. battery - includes anode active compsn. contg. complex metal oxide, and large and small size carbon@

PATENT-ASSIGNEE:

ASSIGNEE

ASAHI CHEM IND CO LTD

CODE

ASAH

PRIORITY-DATA: 1990JP-0287073 (October 26, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 04162357 A	June 5, 1992		008	H01M004/62
JP 3046055 B2	May 29, 2000		010	H01M004/62

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 04162357A	October 26, 1990	1990JP-0287073	
JP 3046055B2	October 26, 1990	1990JP-0287073	
JP 3046055B2		JP 4162357	Previous Publ.

INT-CL (IPC): H01M 4/02; H01M 4/58; H01M 4/62; H01M 10/40

ABSTRACTED-PUB-NO: JP 04162357A  
BASIC-ABSTRACT:

Non-aq. sec. battery particle has anode active compsn. contg. (a) complex metal oxide having the following general formula  $Li(x)M(y)N(z)O(2)$  (I). with the average particle size of 1-10 micron as the anode active material, and (b) large particle size carbon (A) with the average particle size of 0.1-10 microns and small particle size carbon (B) with the average particle size of 0.01-0.08 microns as the electroconductive agents. The improvement is that the total addn. amt. of the carbon (A) and (B) 6.5-2 pts.wt. per 100 pts.wt. anode active material. M is at least one of transition metals, N is at least one non-transition metal,  $x = 0.05-1.10$ ,  $y = 0.85-1.00$ ,  $z = 0-0.10$ .

USE/ADVANTAGE - Small size, light weight and non-aq. sec. battery with good cycle property and over-voltage property can be obt'd.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: SIZE NON AQUEOUS SEC BATTERY ANODE ACTIVE COMPOSITION CONTAIN COMPLEX METAL OXIDE SIZE CARBON@

DERWENT-CLASS: L03 M26 X16

CPI-CODES: L03-E01B5; M26-B;

EPI-CODES: X16-B01F1; X16-E01C1;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-107319

Non-CPI Secondary Accession Numbers: N1992-181915